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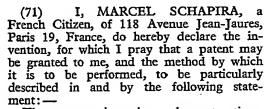
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The present invention relates to tissue 10 papers of a hygienic nature for body use (hereinafter called "tissue" for the sake of convenience) and, more particularly, but not exclusively toilet papers and toilet tissues.

Known tissues of this kind have been con-15 ceived only for permitting efficient wiping, and all improvements hitherto proposed have been directed towards the qualities of the tissue in keeping with this objective, that is to say towards fineness, ability to be crumpled 20 or bunched up without forming sharp folds, resistance to tearing, and softness to the touch. Several qualities of tissue have been proposed, the best known being a relative smooth very thin paper and crepe paper, which latter gains in softness what it loses in strength, this deficiency being additionally considerably accentuated by moisture.

Scenting of tissues can be cited as the sole attempt at improvement not directly bound 30 up with use. Moreover, despite all the care taken in the production of the tissue and in the various processes necessary for its conditioning, a high degree of asepsis cannot be guaranteed, and deterioration occurs in the 35 time which elapses between manufacture and use. On this account, the comfort or emollient effect arising from use of soft toilet tissues is quite often illusory, more especially when account is taken of conditions of modern life which, for many people involves sitting, for long periods, on chairs or seats (such as vehicle seats) of non-ventilated plastics material and the result of which is that moisture and perspiration not absorbed by the clothing (often made of synthetic textiles) encourage overheating, sweating and irritation in the rectal region as well as development of certain micro-organisms such as yeasts and fungoid growths. Impregnated tissues are used, for example to freshen-up the face or for removing make-up, but these have the disadvantage of being moist and, therefore, of necessitating special tight and individual conditioning for each sheet, which is absolutely incompatible with a toilet tissue 55 for both economic and practical reasons.

An object of the present invention is to provide a dry tissue by which these disadvantages or difficulties can be avoided, which incorporates a carrier which provides improved wiping qualities of the tissue and which further incorporates at least two active substances which for example guarantee a high degree of asepsis, or contribute to improving comfort by reducing perspiration and by protecting against inflammation and irritation.

With this object in view, the present invention provides a dry tissue paper of a hygienic nature for body use characterised in that it incorporates at least two active substances (as herein defined) in a solid carrier having a melting point which is lower than human body temperature.

The active substances may have similar or different properties.

The carrier and active substances may be introduced either by incorporating them into the pulp from which the paper is made so that they are present in the entire thickness. of the tissue, or by depositing them on one or both surfaces of the tissue and then drying



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	.9			
	the tissue, or by a combination of these two processes.		Darte	65
	Another possibility consists in sandwiching	2,4,4' - trichloro - 2' -	parts	
	the carrier and active substances between two	hydroxydinhenyl ether (oc		
5	tuin sneets which form the tissue and allow	a bactericide and bacterio.		
	ment to diffuse when the tissue is used for	stat)	0.050	70
	wiping.	azulene (as an antiphlogistic	0.050	20
	As used herein, the term "active substance"	agent)	0.025	
	means a substance which is inert relative to	ethylene glycol monolaurate	0.023	
10	the tissue, which does not produce any	(as carrier)	100.000	
	secondary reaction on the skin and the mucous		100.000	•
	membranes, and which is one or more of the	Example 2:		75
	following, namely an antiseptic, a bactericide		parts	13
	a Dacteriostatic agent, an anthelmintic agent	2)2 - moromo - 2'2 91-	parts	
15	an antiputogistic agent, an antiperchicant of	chloro dihydroxydiphenyl-		
	rungicide, a deodorant, a lubricant, and for	methane (as a bactericide		
	an emollient epidermic agent.	and fungicide)	0.05	63
	The active substances should, of course, be	menthol (as a skin antiseptic		
	mer relative to one another			•
20	Non-restrictive examples of said active sub-	agent)	0.05	
	statices are annisentic hactericides such as	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	ulymol, resorcing and hydroxyguingline sul	(=0 0011101)	100.000	85
	phate, anuperspirant agents such as alumi			
25	mun chloronydrate, aluminium chloride			
25	socium lactate, aluminium lactate alumi-	2 4 42	parts	
	muni sancylate and zirconium hydroxide, and	hada it i		
	substances naving several effects such as	January Chici (as		
	michillo Willen is both a skin antisentic and	stat)	0.050	90
30	an emoment agent.	4h	0.050	
	The combination of selected ones of these	an anthelmintic agent)	0.020	
	substances with cellulose esters, e.g. in admix-	azulene (as an antiphlogistic	0.030	
	ture, results in a sizing or coating material	agent)	0.025	95
	which is not very adherent to the tissue and which, upon use of the tissue, will leave a	polyoxyethylene glycol mono-	0.025	73
35	slight deposit in the wiped region thereby	stearate (as carrier)	50.000	
	generating a prolonged sensation of well-	propylene glycol monomyris-		
	oung.	tate (also as carrier)	50.000	
	The hygienic tissue of the invention can	In all there are the		
40	of Hi uit lorin or toller names but he assure	In all these examples, the mixtur	re can be	100
40		wicorborated fifth the ticche pur a	ddina	
	Formed mercin such histing may be a medi-	the pulp from which the paper is	made, by	
	The public of DualingChillical Bases of	applying the mixture as a single the substances as successive liquid	liquid or	
	Puper for various particular and specific appli	or both surfaces of the tissue and	s to one	
45	Callons.	drying the tissue, or by sandwiching	thereafter	105
	Relative hereto, it is to be mentioned that	ture between two thin paper shee	tne mix-	
	Where the tissue of the invention incorporates	regerier rount me manie		
•	don't substance of active cubetoness Land	The active substances are associa	ited with	
	ing lubricating and emollient properties, the tissue may be of practical use, for instance, in the fields of intimated	and done carrier, which tight man	ha actions	110
50	in the fields of intimate hygiene and cosmetic	med) this callier flaving a melting no	intL.	110
	products.	20 10 ret than number nonv temper	oturo co	
	Indeed, by incorporating in the tissue, as	ame it will leadily become franchers	ed to the	
	will delive substance, a cibetone	the distinction of the distincti	haraaman	
	TOURS OF THE SITH . The tierre	reading on the skill a nim which co	ntributos	115
55		to comitciating any damage or	irritation.	
	TO THE TOTAL MILLIMATE DIVIDING TOP ATTORNEY	which might arise from the wiping	g opera-	
	and surface layers of sanitary towns which	2011.		
•		Naturally the invention is not rest	ricted to	
60	tact with the skin and micous members	the foregoing cashibles, and variation	086	120
60	The same with the same and the same	be made thereto within the scope following claims.	of the	
	Project 101 tile Dividication of tomole for an	S Committee	•	
	make-up.	WHAT I CLAIM IS:-		
	The following examples illustrate composi-	1. A dry tissue paper of a hygien:	0 mat	
	tions for use in the invention:	for body use characterised in that	t incor	125
		••• (tid()	* TITCOT-	143

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porates at least two active substances (as herein defined) in a solid carrier having a melting point lower than human body temperature.

- 2. A tissue paper as claimed in Claim 1 characterised in that one of the active substances is 2,4,4' trichloro 2' hydroxy diphenyl ether.
- 3. A tissue paper as claimed in Claim 1 or 2 characterised in that one of the active substances is azulene.
 - 4. A tissue paper as claimed in any preceding claim characterised in that one of the active substances is thymol.
- 5. A tissue paper as claimed in any préceding claim characterised in that one of the active substances is aluminium chlorohydrate or aluminium chloride.
 - 6. A tissue paper as claimed in any preceding claim characterised in that one of the active substances is menthol.

- 7. A tissue paper as claimed in any preceding claim characterised in that the carrier comprises propylene glycol monomyristate.
- 8. A tissue paper as claimed in any preceding claim characterised in that the carrier comprises polyoxy ethylene glycol monostearate.
- 9. A tissue paper as claimed in any of Claims 1 to 6, characterised in that the solid compound comprises ethylene glycol monolaurate.
- 10. A hygienic tissue according to Claim 1 and substantially as herein described.

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